

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
ADENOVIRUS TO BE USED IN GENE THERAPY

Inventor: Fallaux et. al.  
Serial No.: Not yet assigned  
Docket No.: 2578-3833.9US

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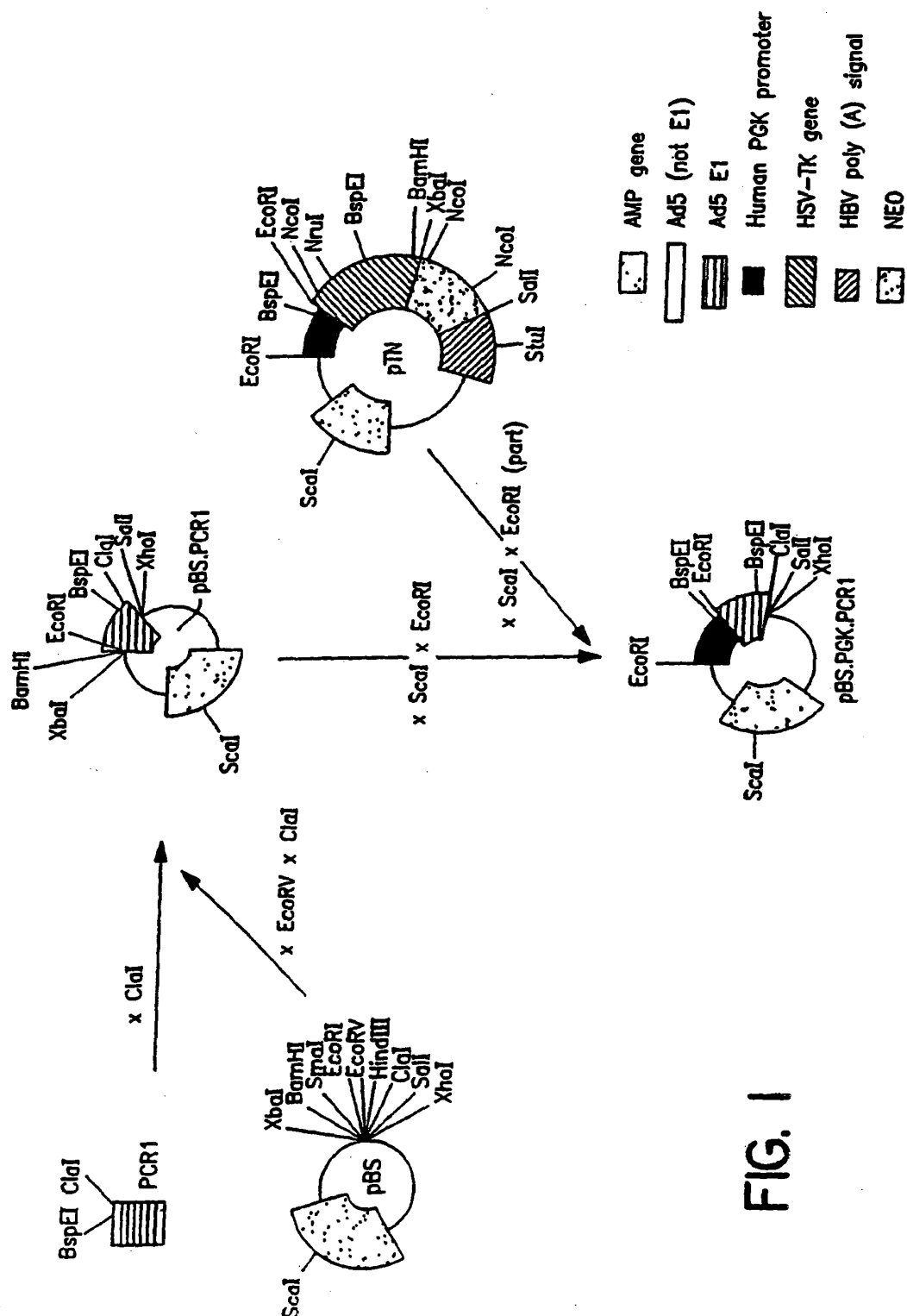
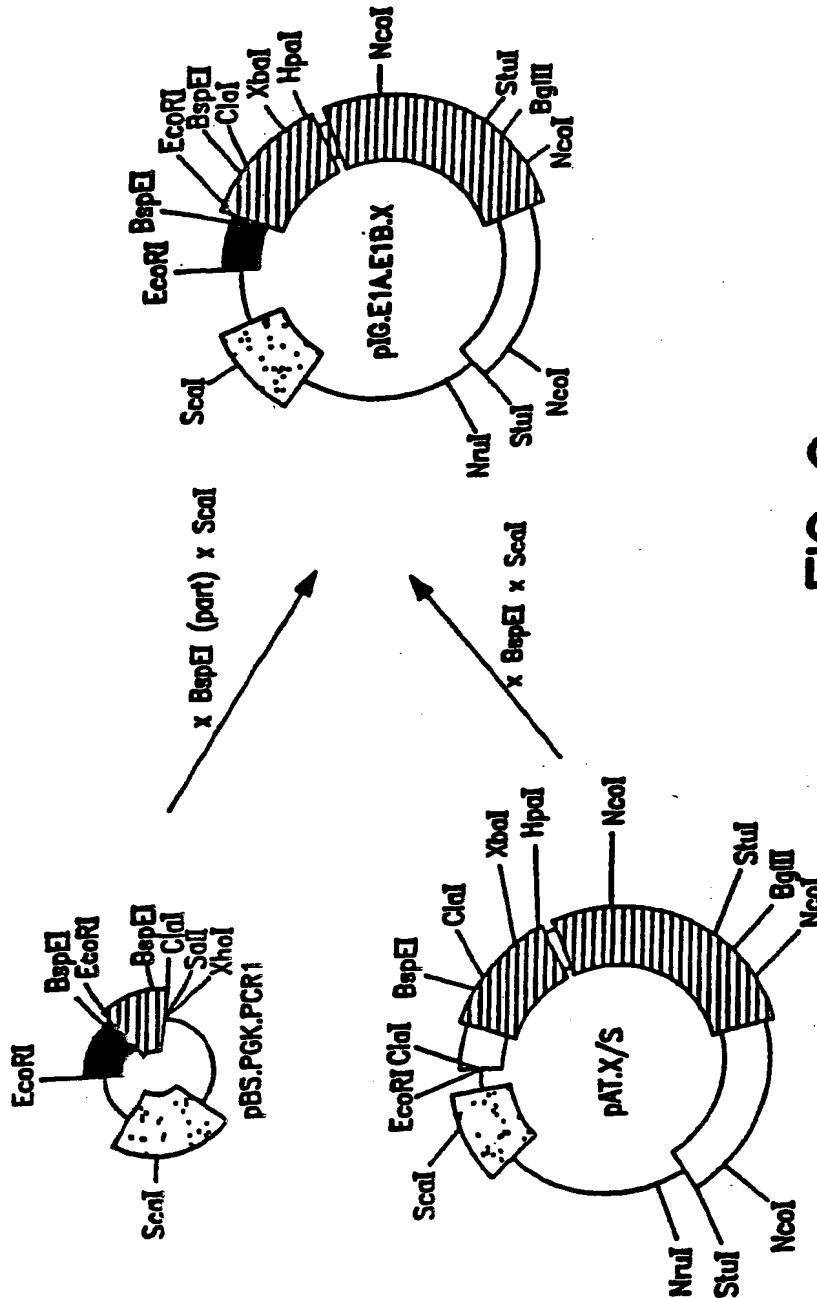


FIG. 1

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Fig. 2



TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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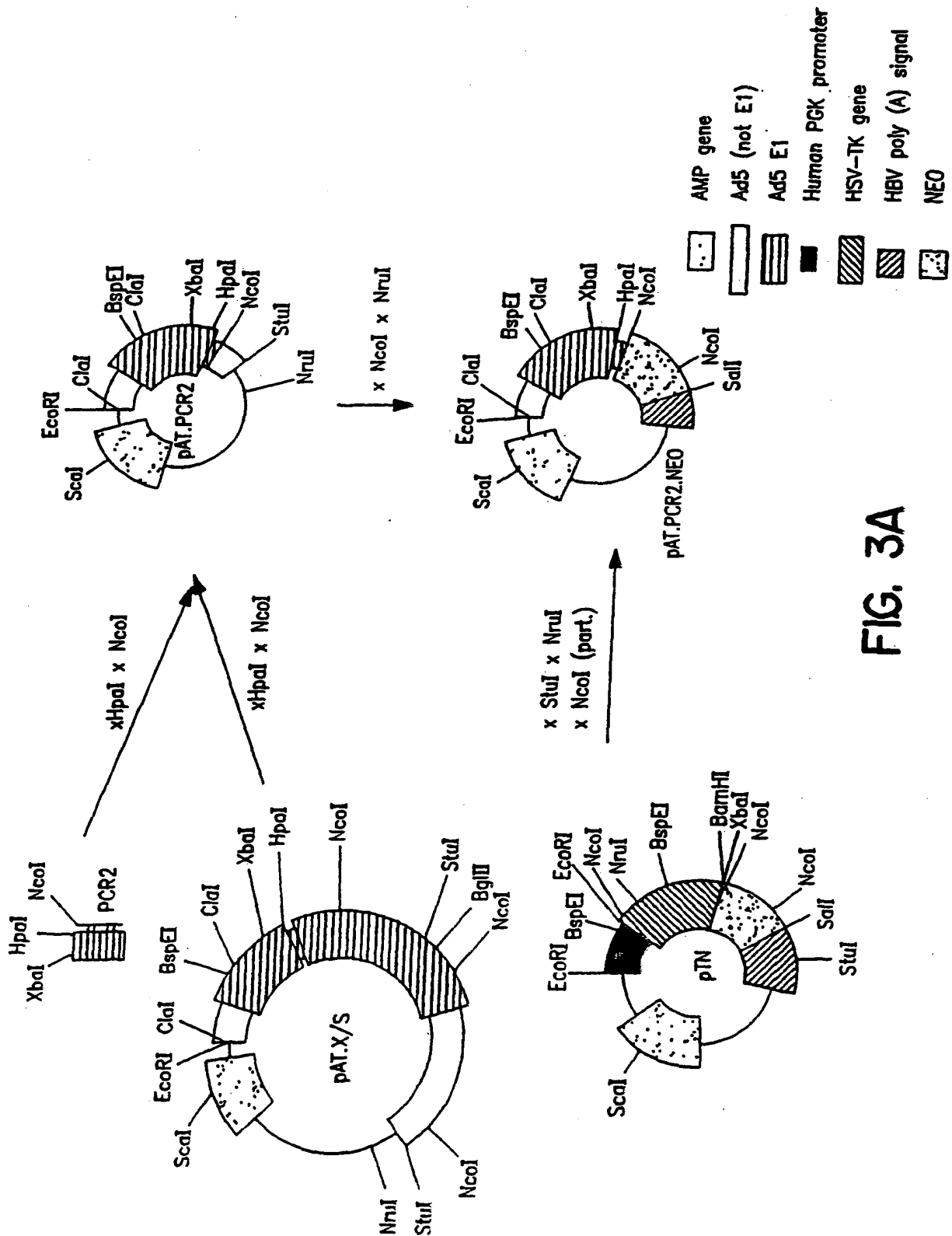


FIG. 3A

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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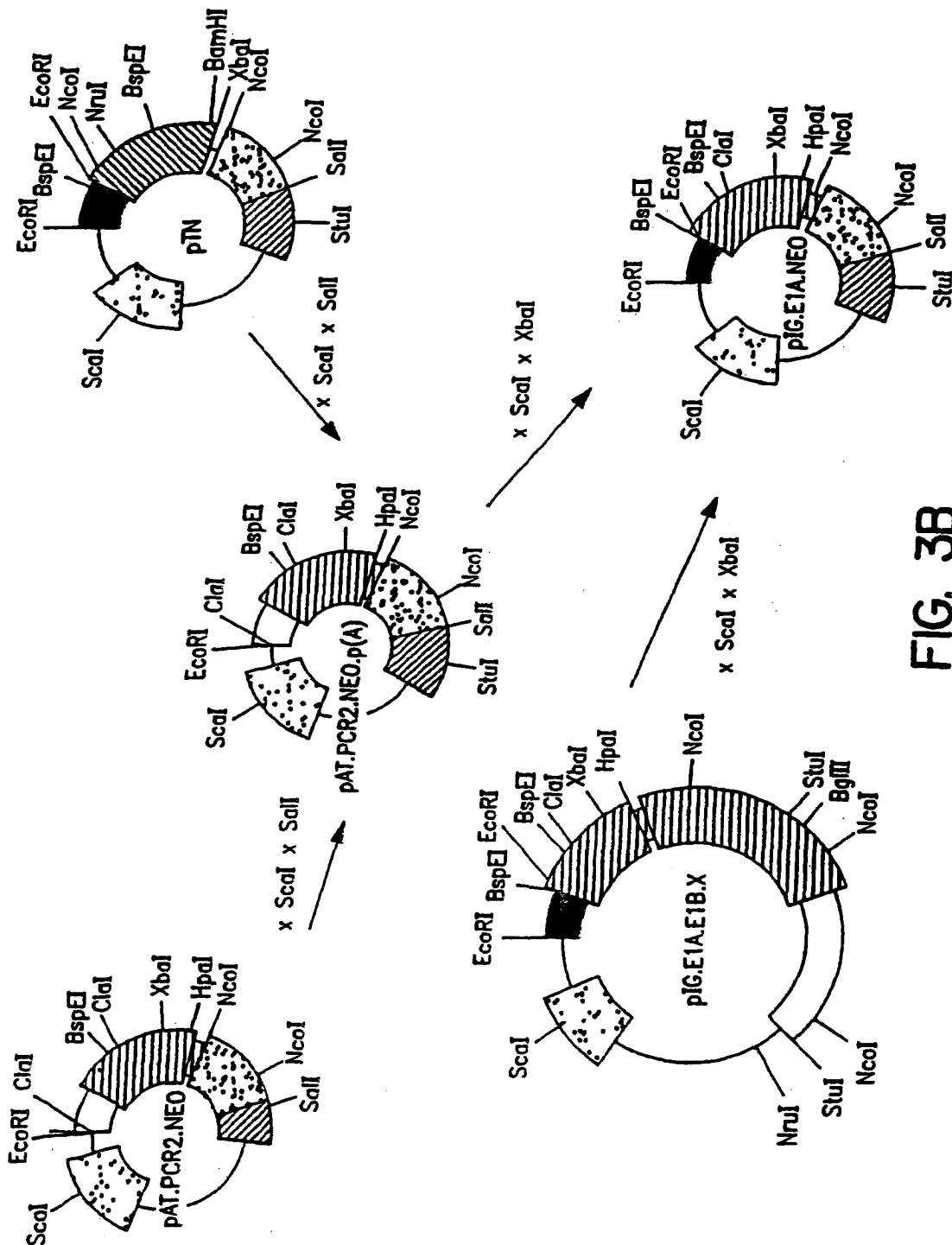


FIG. 3B

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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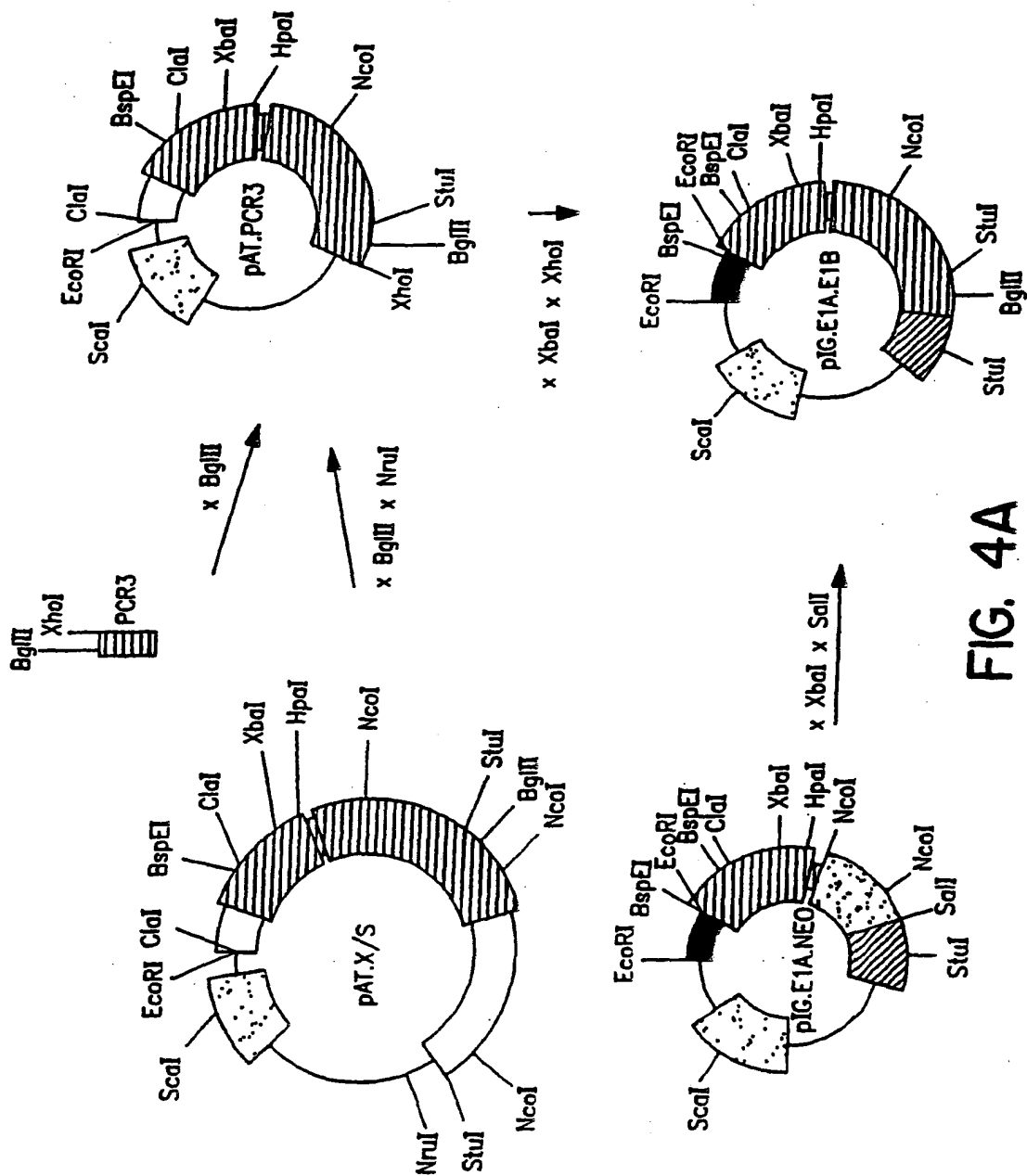
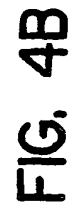


FIG. 4A



TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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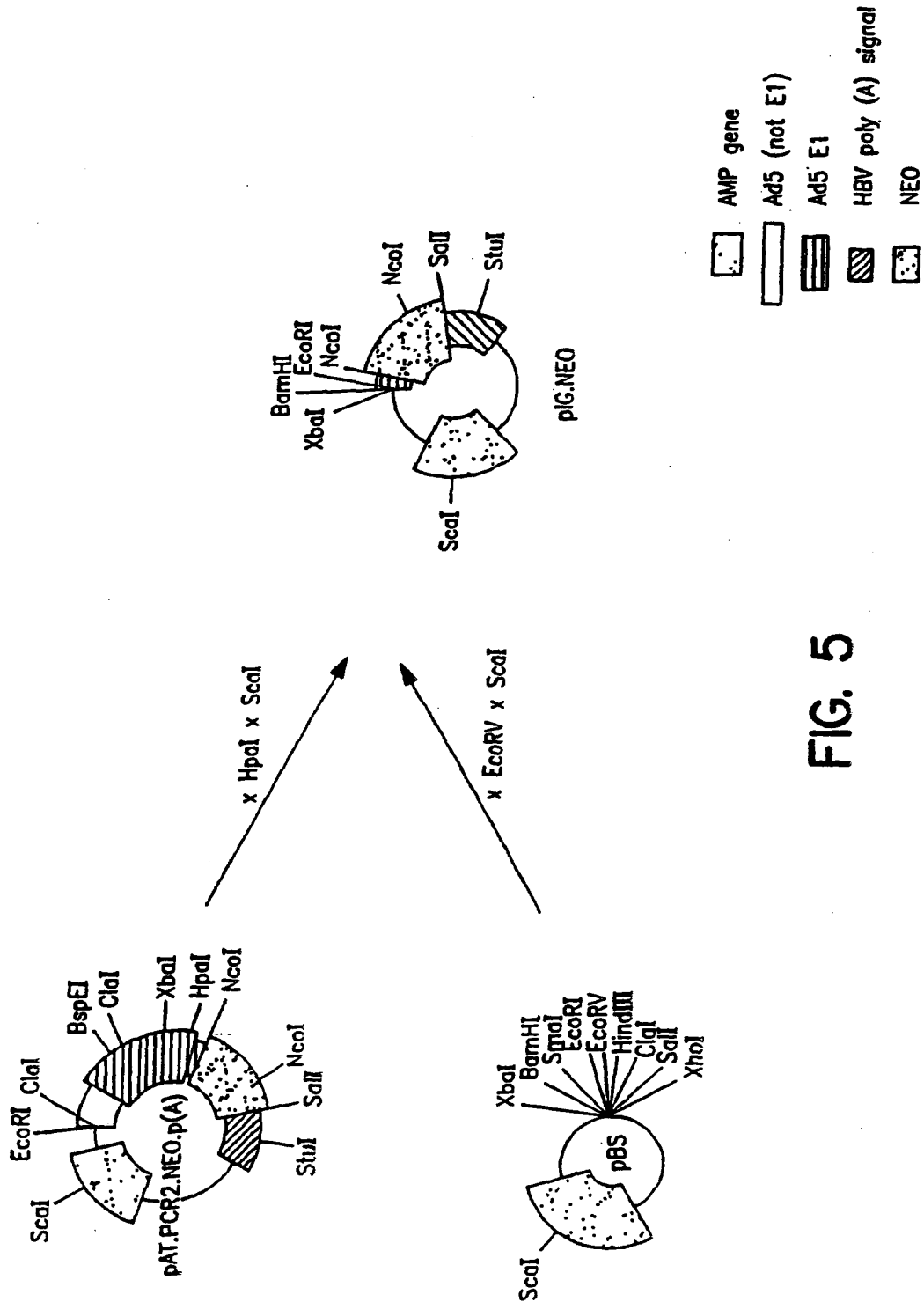


FIG. 5

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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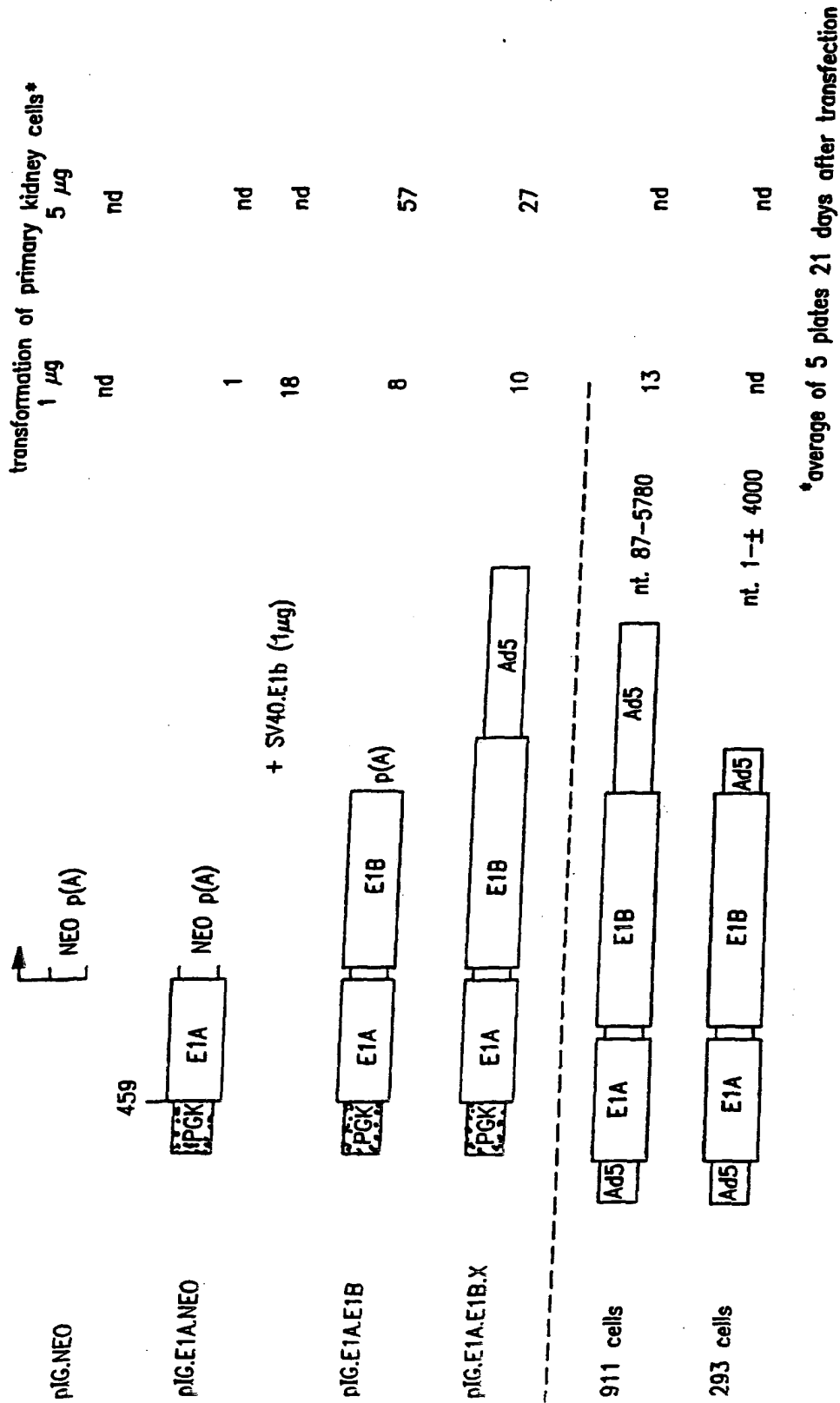


FIG. 6



TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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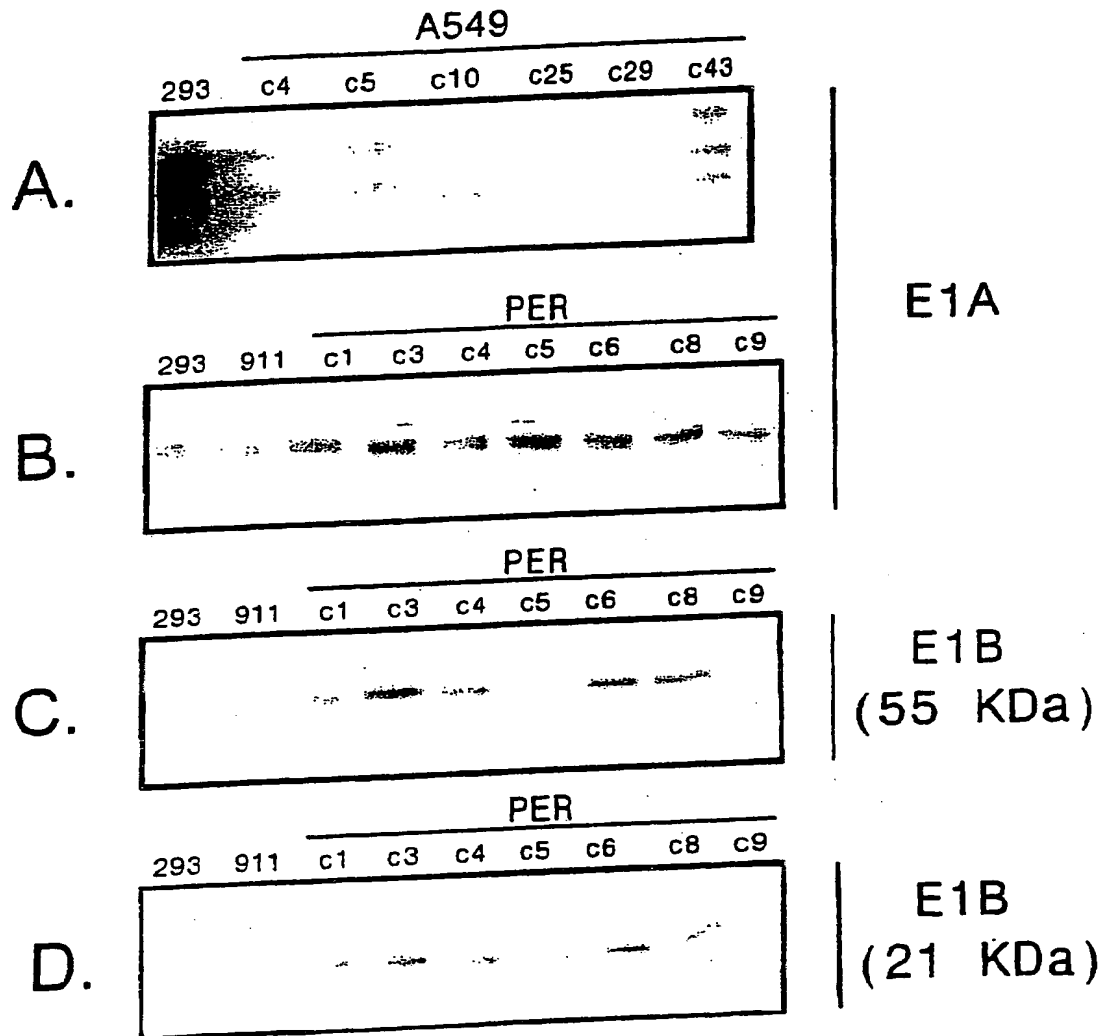


FIG. 7

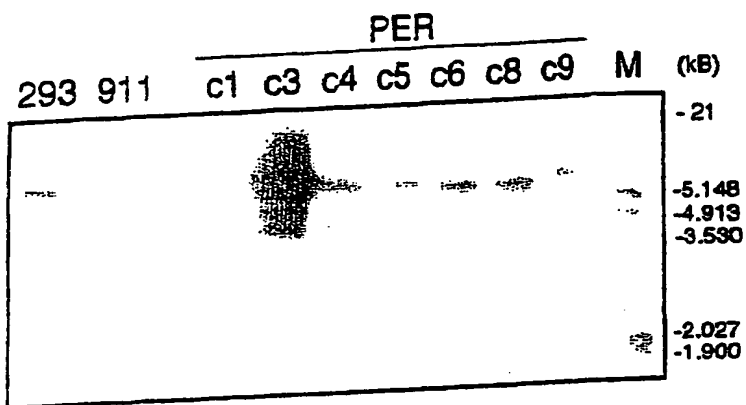
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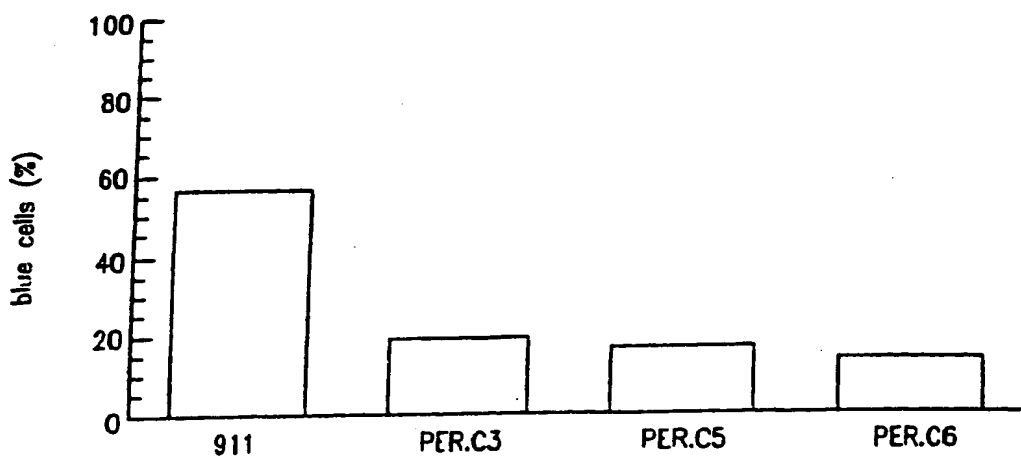


FIG. 9

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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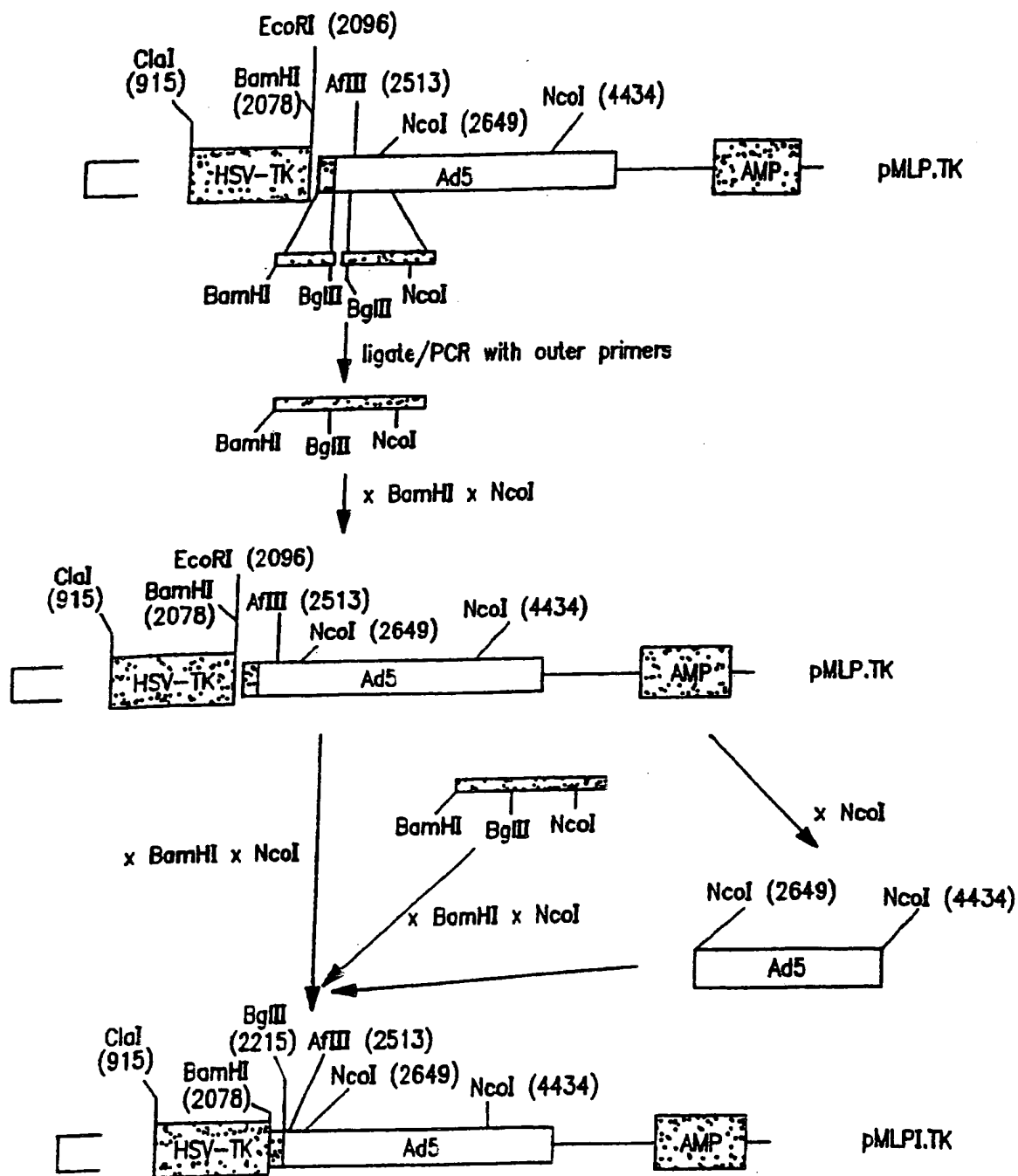


FIG. 10

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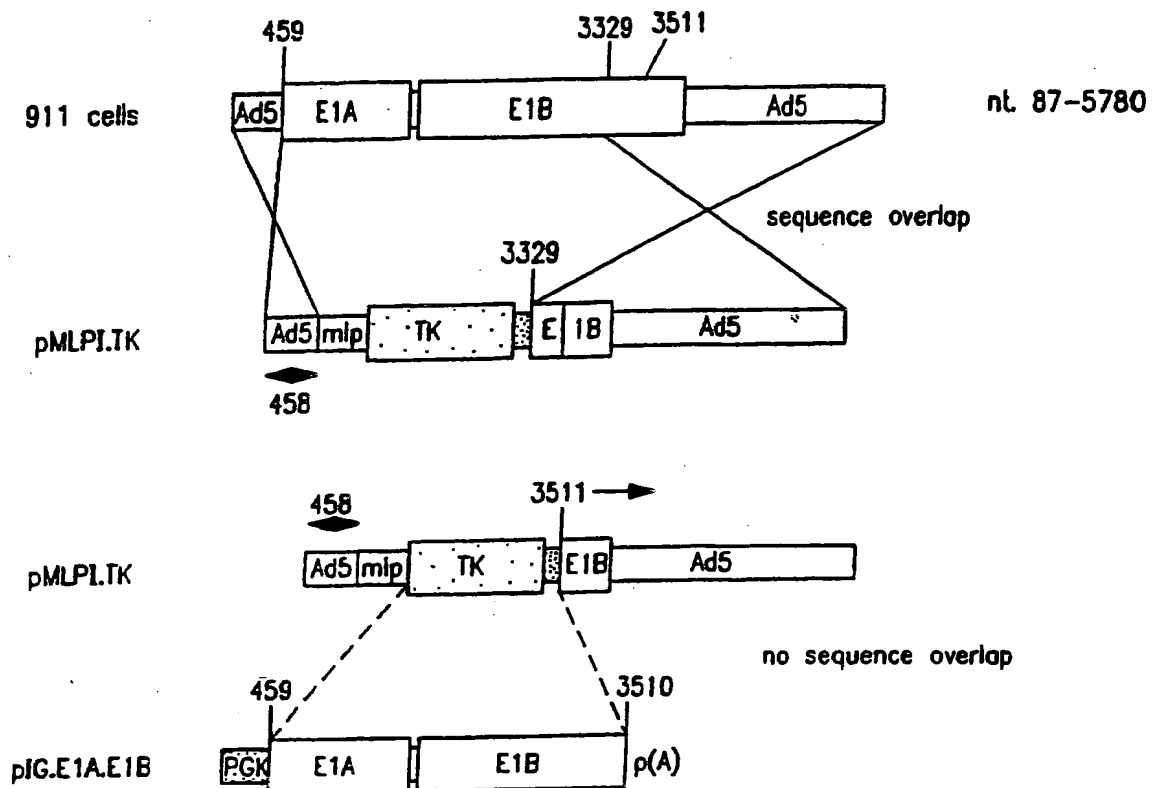


FIG. IIA

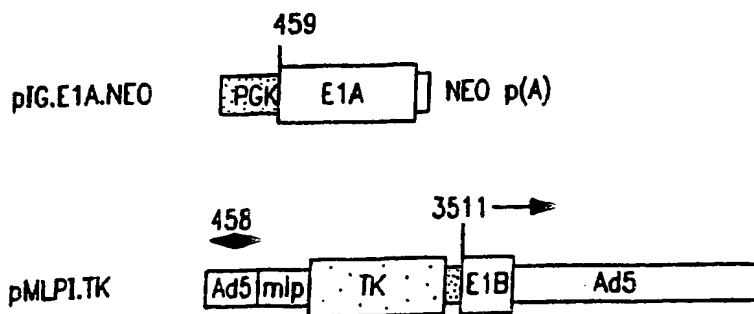


FIG. IIB

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
ADENOVIRUS TO BE USED IN GENE THERAPY

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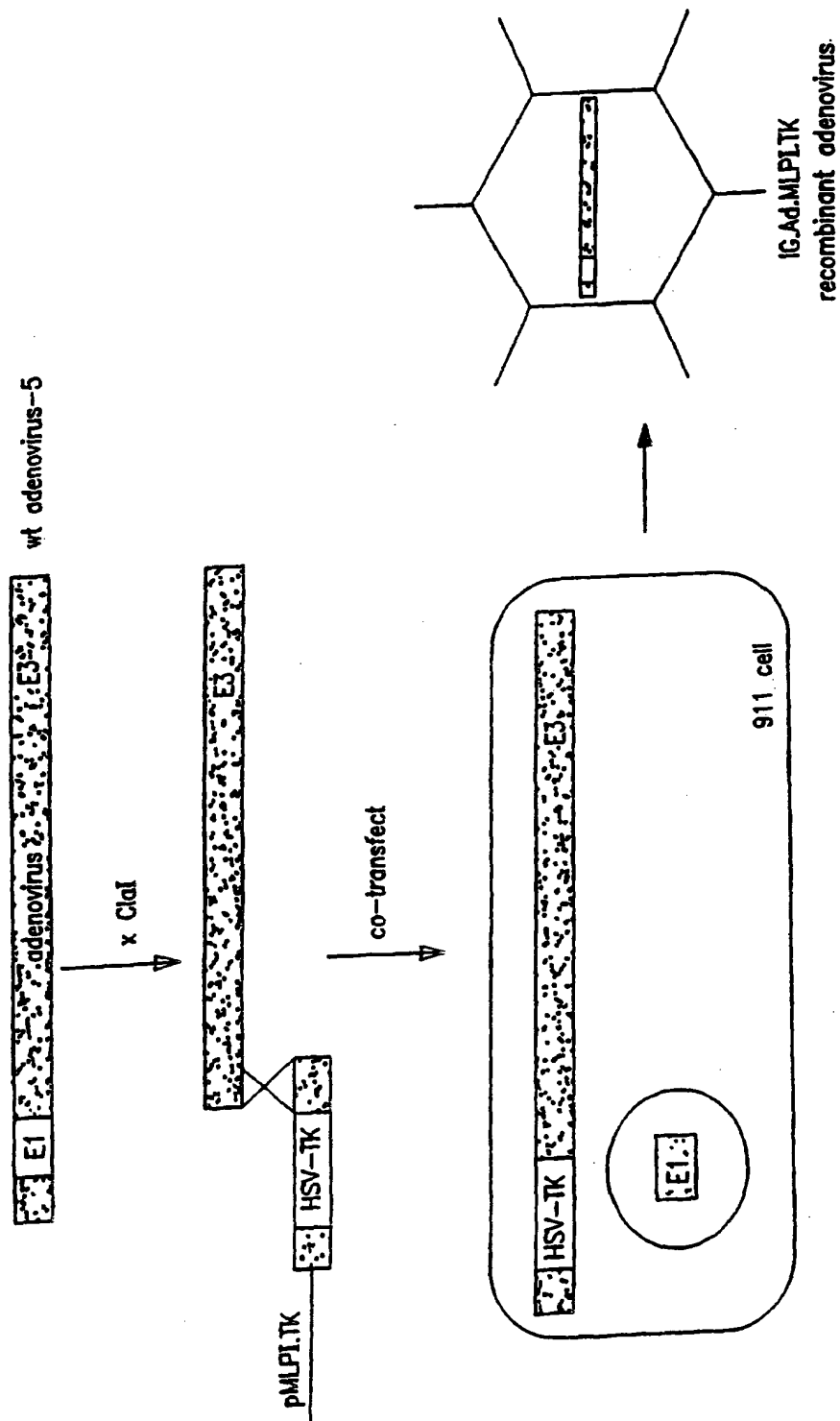


FIG. 12

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
ADENOVIRUS TO BE USED IN GENE THERAPY

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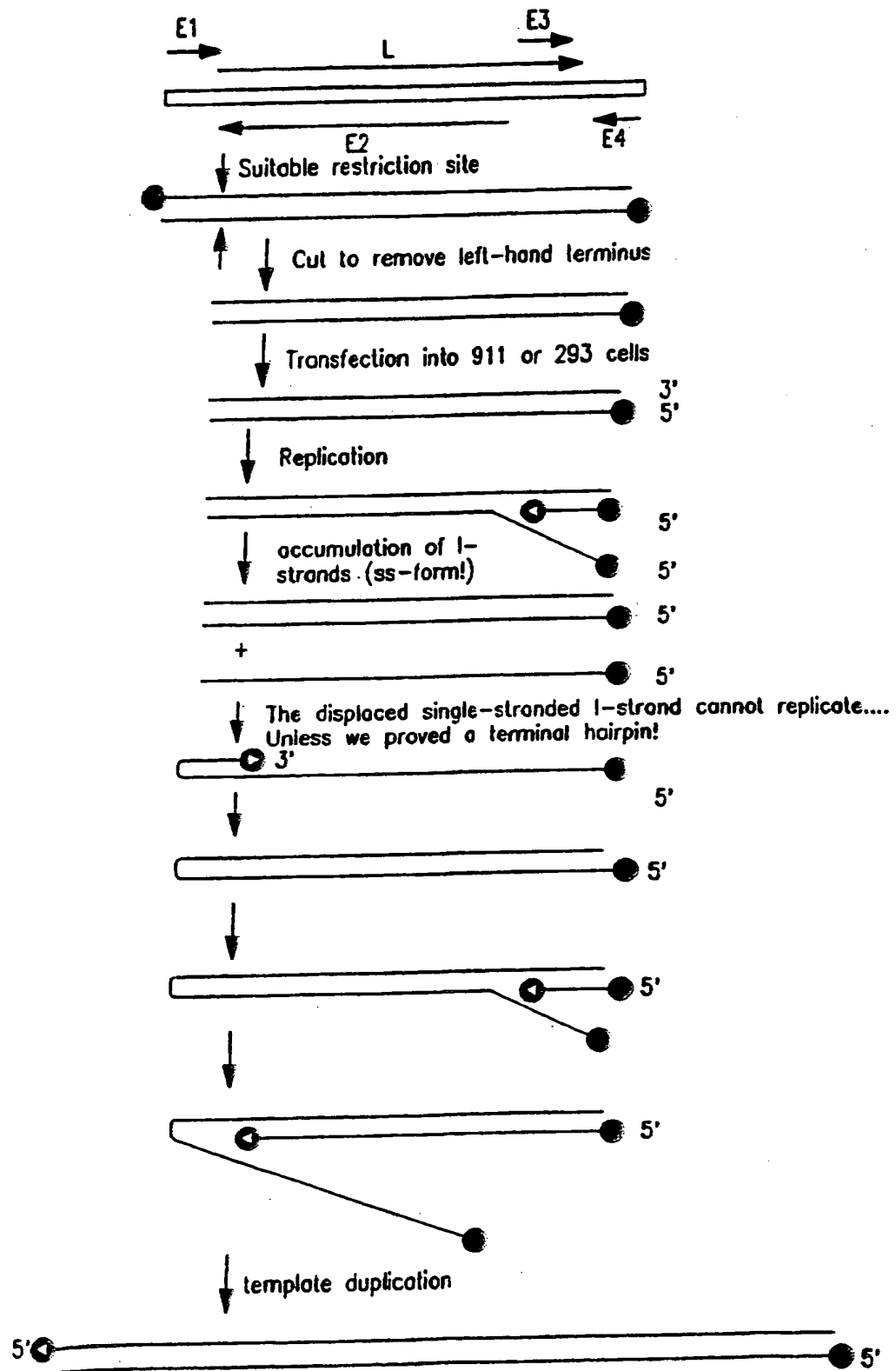


FIG. 13

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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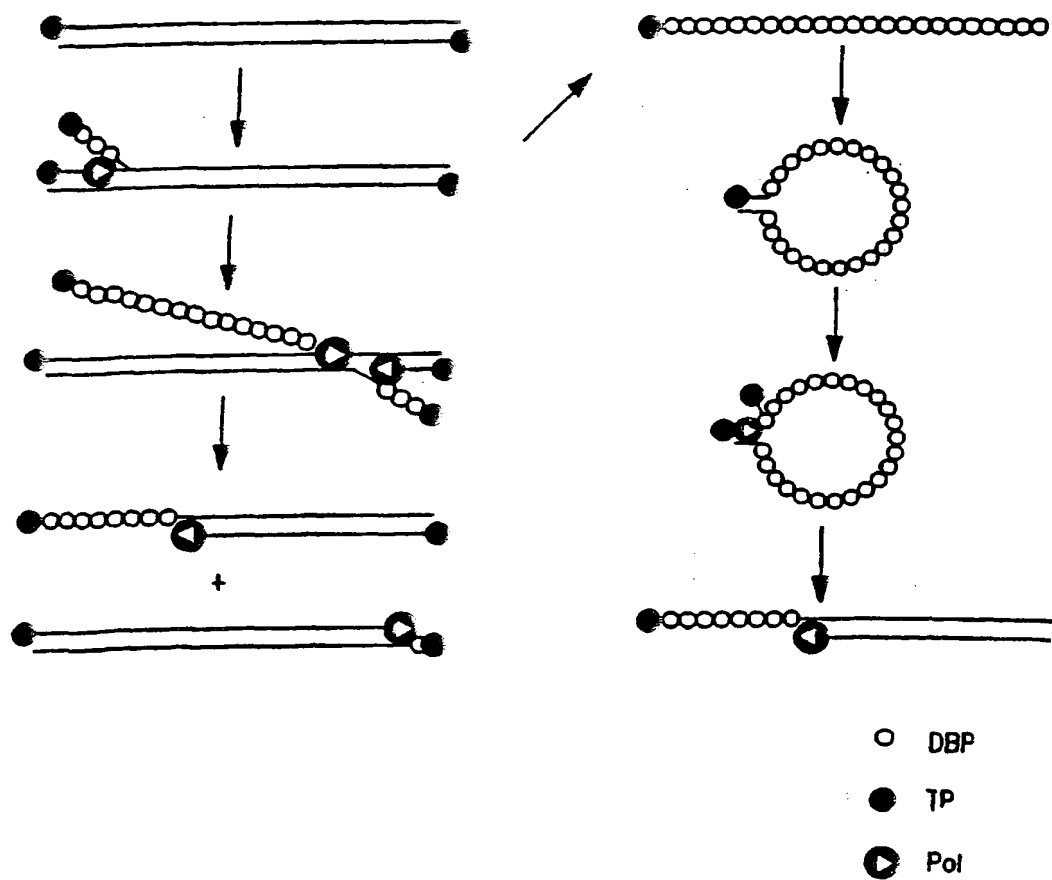


FIG. 14



TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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5' -GTACACTGACCTAGTGCCGCCCGGGCA  
          |||||||A  
          GATCACGGCGGGCCCGA

FIG.15

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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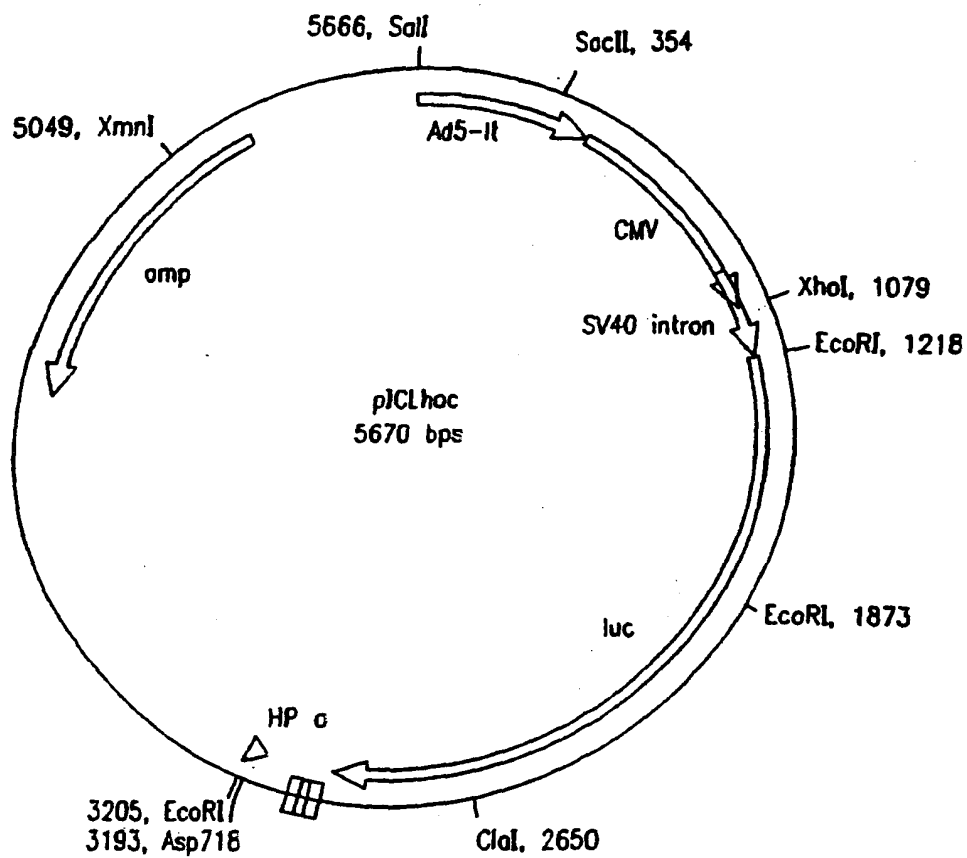


FIG. 16

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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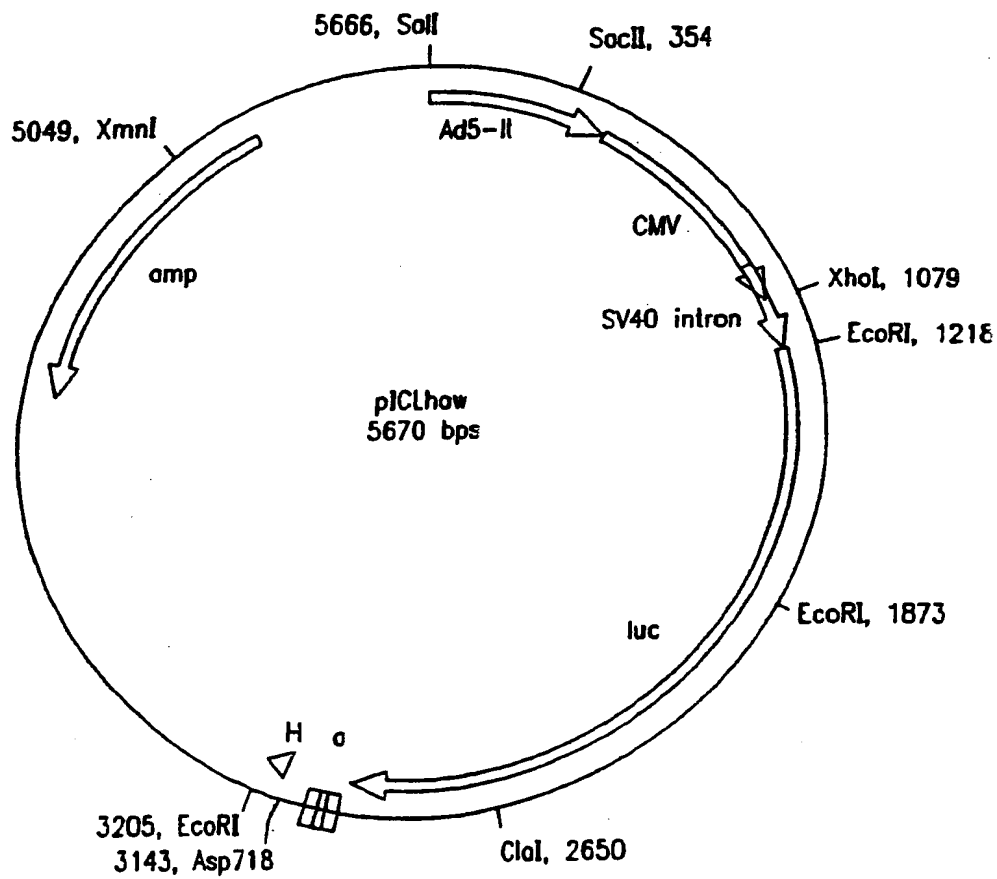


FIG. 17

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
ADENOVIRUS TO BE USED IN GENE THERAPY

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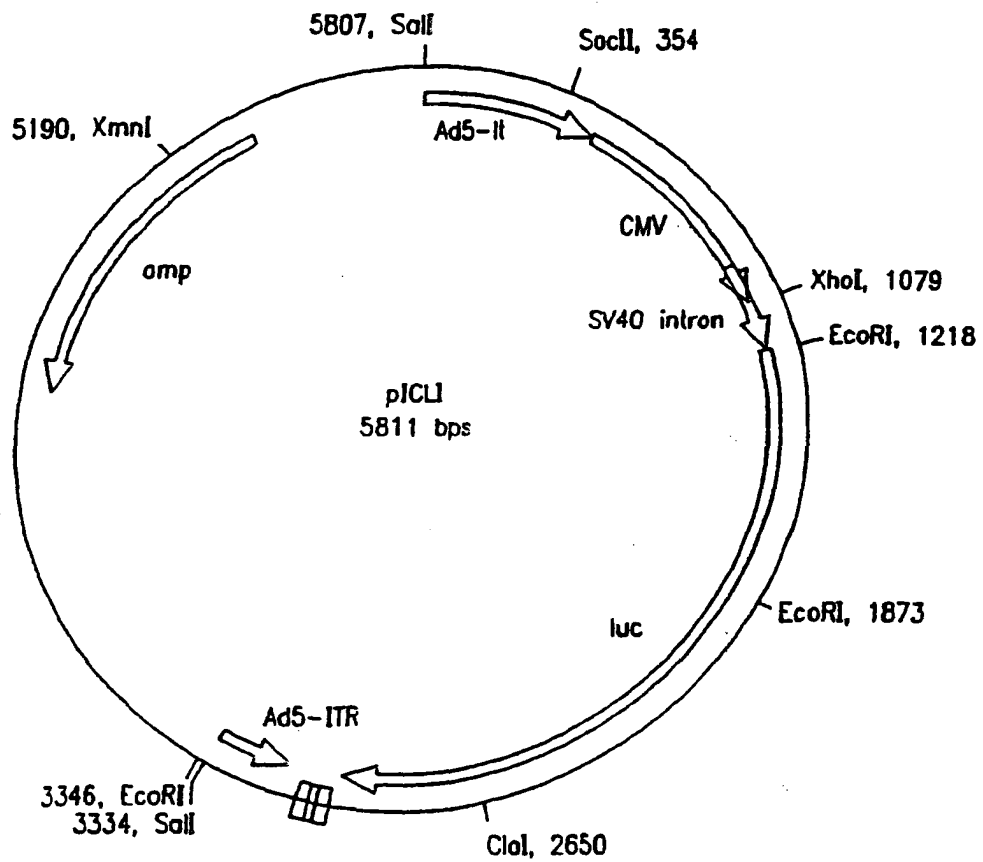


FIG. 18

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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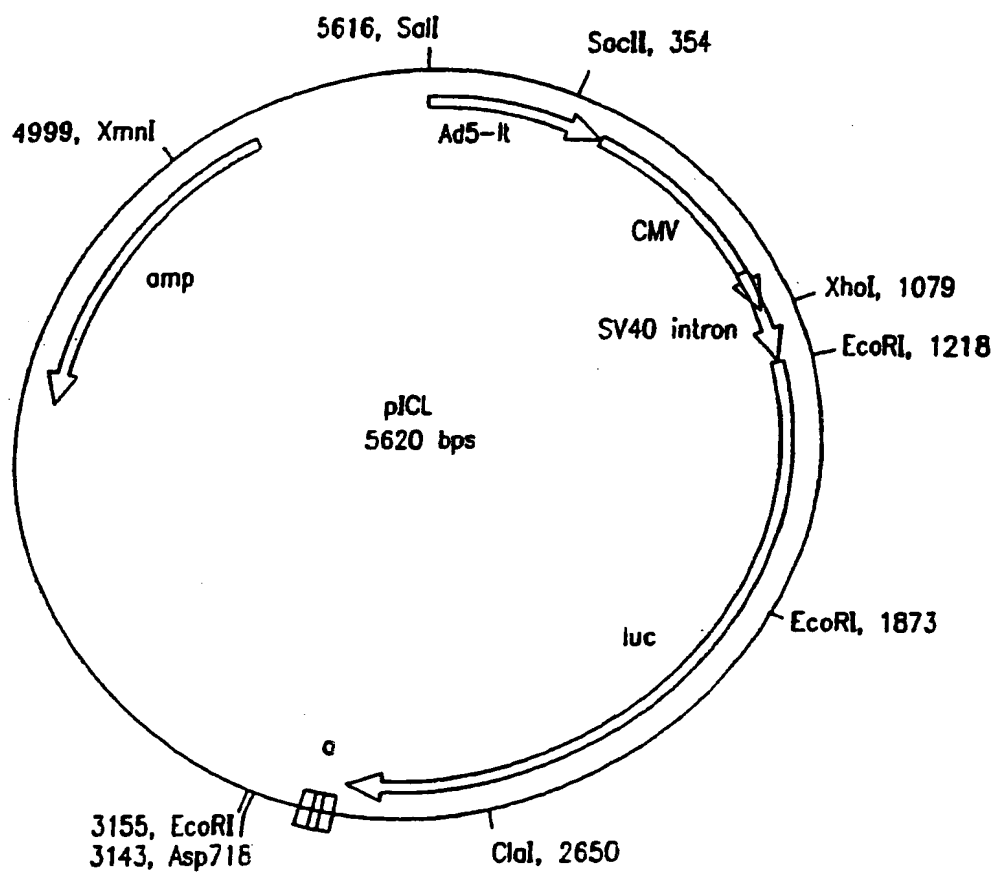


FIG. 19

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CATCATCAAT AATATACCTT ATTTTGGATT GAAGCCAATA TGATAATGAG GGGGTGGAGT 60  
TTGTGACGTG GCGCGGGCG TGGGAACGGG GCGGGTGACG TAGTAGTGTG GCGGAAGTGT 120  
GATGTTGCAA GTGTGGCGGA ACACATGTAA GCGACGGATG TGGCAAAAGT GACGTTTTTG 180  
GTGTGCGCCG GTGTACACAG GAAGTGACAA TTTTCGCGG GTTTtagGCG GATGTTGTAG 240  
TAAATTTGGG CGTAACCGAG TAAGATTTGG CCATTTTCGC GGGAAAAC TG AATAAGAGGA 300  
AGTGAAATCT GAATAATTTT GTGTTACTCA TAGCGCGTAA TATTTGTCTA GGGCCGCGGG 360  
GACTTTGACC GTTTACGTGG AGACTCGCCC AGGTGTTTTT CTCAGGTGTT TTCCGCGGTT 420  
CGGGTCAAAG TTGGCGTTTT ATTATTATAG TCAGGGGCTG CAGGTCGTTA CATAACTTAC 480  
GGTAAATGGC CCGCCTGGCT GACCGCCCCA CGACCCCGC CCATTGACGT CAATAATGAC 540  
GTATGTTCCC ATAGTAACGC CAATAGGGAC TTTCCATTGA CGTCAATGGG TGGAGTATTT 600  
ACGGTAAACT GCCCACTTGG CAGTACATCA AGTGTATCAT ATGCCAAGTA CGCCCCCTAT 660  
TGACGTCAAT GACGGTAAAT GGCCCGCCTG GCATTATGCC CAGTACATGA CCTTATGGGA 720  
CTTTCCTACT TGGCAGTACA TCTACGTATT AGTCATCGCT ATTACCATGG TGATGCGGTT 780  
TTGGCAGTAC ATCAATGGGC GTGGATAGCG GTTTGACTCA CGGGGATTTC CAAGTCTCCA 840  
CCCCATTGAC GTCAATGGGA GTTTGTTTTG GCACCAAAT CAACGGGACT TTCCAAAATG 900  
TCGTAACAAC TCCGCCCCAT TGACGCAAAT GGGCGGTAGG CGTGACGGT GGGAGGTCTA 960  
TATAAGCAGA GCTCGTTTAG TGAACCGTCA GATCGCCTGG AGACGCCATC CACGCTGTTT 1020

FIG. 20A

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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TGACCTCCAT AGAAGACACC GGGACCGATC CAGCCTCCGG ACTCTAGAGG ATCCGGTACT 1080  
CGAGGAACTG AAAAACCAGA AAGTTAACTG GTAAGTTAG TCTTTTGTG TTTTATTCA 1140  
GGTCCCGGAT CCGGTGGTGG TGCAAAATCAA AGAACTGCTC CTCAGTGGAT GTTGCCTTTA 1200  
CTTCTAGTAT CAAGCTTGAA TTCCTTTGTG TTACATTCTT GAATGTCGCT CGCAGTGACA 1260  
TTAGCATTCG GGTACTGTTG GTAAAATGGA AGACGCCAAA AACATAAAGA AAGGCCCGGC 1320  
GCCATTCTAT CCTCTAGAGG ATGGAACCGC TGGAGAGCAA CTGCATAAAG CTATGAAGAA 1380  
ATACGCCCTG GTTCCTGGAA CAATTGCTTT TACAGATGCA CATATCGAGG TGAACATCAC 1440  
GTACCGGGAA TACTTCGAAA TGTCGGTTCC GTTGGCAGAA GCTATGAAAC GATATGGGCT 1500  
GAATACAAAT CACAGAATCG TCGTATGCAG TGAAAACTCT CTTCAATTCT TTATGCCGGT 1560  
GTTGGGCGCG TTATTTATCG GAGTTGCAGT TCGGCCCGCG AACGACATTT ATAATGAACG 1620  
TGAATTGCTC AACAGTATGA ACATTTCCGA GCCTACCGTA GTGTTTGTGTT CCAAAAAGGG 1680  
GTTGCAAAAA ATTTTGAACG TGCAAAAAAA ATTACCAATA ATCCAGAAAA TTATTATCAT 1740  
GGATTCTAAA ACGGATTACC AGGGATTTC A GTCGATGTAC ACGTTCGTCA CATCTCATCT 1800  
ACCTCCCGGT TTTAATGAAT ACGATTTTGT ACCAGAGTCC TTGATCGTG ACAAACAAT 1860  
TGCACTGATA ATGAATTCCT CTGGATCTAC TGGGTACCT AAGGGTGTGG CCCTTCCGCA 1920  
TAGAACTGCC TCGGTCAGAT TCTCGCATGC CAGAGATCCT ATTTTGGCA ATCAAAATCAT 1980  
TCCGGATACT GCGATTTTAA GTGTTGTTC ATTCCATCAC GGTTTTGGAA TGTTTACTAC 2040

FIG. 20B

TITLE: PACKAGING SYSTEMS FOR HUMAN RECOMBINANT  
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ACTCGGATAT TTGATATGTG GATTTCGAGT CGTCTTAATG TATAGATTG AAGAAGAGCT 2100  
GTTTTACGA TCCCTTCAGG ATTACAAAAT TCAAAAGTGG TTGCTAGTAC CAACCCTATT 2160  
TTCATTCTTC GCCAAAAGCA CTCTGATTGA CAAATACGAT TTATCTAATT TACACGAAAT 2220  
TGCTTCTGGG GCGGCACCTC TTTCGAAAGA AGTCGGGGAA GCGGTTGCAA AACGCTTCCA 2280  
TCTTCCAGGG ATACGACAAG GATATGGGCT CACTGAGACT ACATCAGCTA TTCTGATTAC 2340  
ACCCGAGGGG GATGATAAAC CCGGCGCGGT CGGTAAAGTT GTTCCATTTT TTGAAGCGAA 2400  
GGTTGTGGAT CTGGATACCG GGAAAACGCT GGGCGTTAAT CAGAGAGGCG AATTATGTGT 2460  
CAGAGGACCT ATGATTATGT CCGGTTATGT AAACAATCCG GAAGCGACCA ACGCCTTGAT 2520  
TGACAAGGAT GGATGGCTAC ATTCTGGAGA CATAGCTTAC TGGGACGAAG ACGAACACTT 2580  
CTTCATAGTT GACCGCCTTGA AGTCTTTAAT TAAATACAAA GGATATCAGG TGGCCCCCGC 2640  
TGAATTGGAA TCGATATTGT TACAACACCC CAACATCTTC GACGCGGGCG TGGCAGGTCT 2700  
TCCCGACGAT GACGCCGGTG AACTTCCCGC CGCCGTTGTT GTTTTGGAGC ACGGAAAGAC 2760  
GATGACGGAA AAAGAGATCG TGGATTACGT CGCCAGTCAA GTAACAACCG CGAAAAGTT 2820  
GCGCGGAGGA GTTGTGTTG TGGACGAAGT ACCGAAAGGT CTTACCGGAA AACTCGACGC 2880  
AAGAAAATC AGAGAGATCC TCATAAAGGC CAAGAAGGC GGAAAGTCCA AATTGTAAAA 2940  
TGTAAGTGA TTCAGCGATG ACGAAATTCT TAGCTATTGT AATGGGGGAT CCCCAACTTG 3000  
TTTATTGCAG CTTATAATGG TTACAAATAA AGCAATAGCA TCACAAATTT CACAAATAAA 3060

FIG. 20C



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GCATTTTTT CACTGCATT TAGTTGTGGT TTGTCCAAAC TCATCAATGT ATCTTATCAT 3120  
GTCTGGATCG GATCGATCCC CGGTACCGA GCTCGAATTC GTAATCATGG TCATAGCTGT 3180  
TTCCTGTGTG AAATTGTTAT CCGCTCACAA TTCCACACAA CATAAGAGCC GGAAGCATAA 3240  
AGTGTAAGC CTGGGTGCC TAATGAGTGA GCTAACTCAC ATTAATTGGC TTGCGCTCAC 3300  
TGCCCGCTTT CCAGTCGGGA AACCTGTCGT GCCAGCTGCA TTAATGAATC GGCCAACGG 3360  
CGGGGAGAGG CGGTTTGGT ATTGGGCGCT CTTCCGCTTC CTCGCTCACT GACTCGCTGC 3420  
GCTCGGTCGT TCGGCTGCGG CGAGCGGTAT CAGCTCACTC AAAGGCGGTA ATACGGTTAT 3480  
CCACAGAATC AGGGGATAAC GCAGGAAAGA ACATGTGAGC AAAAGGCCAG CAAAAGGCCA 3540  
GGAACCGTAA AAAGGCCGCG TTGCTGGCGT TTTTCCATAG GCTCCGCCCC CCTGACGAGC 3600  
ATCACAAAA TCGACGCTCA AGTCAGAGGT GCGGAAACCC GACAGGACTA TAAAGATACC 3660  
AGGCGTTTCC CCCTGGAAGC TCCCTCGTGC GCTCTCCTGT TCCGACCCTG CCGCTTACCG 3720  
GATACCTGTC CGCCTTTCTC CCTTCGGGAA GCGTGGCGCT TTCTCATAGC TCACGCTGTA 3780  
GGTATCTCAG TTCGGTGTAG GTCGTTTCGT CCAAGCTGGG CTGTGTGCAC GAACCCCCCG 3840  
TTCAGCCCGA CCGCTGCGCC TTATCCGGTA ACTATCGTCT TGAGTCCAAC CCGGTAAGAC 3900  
ACGACTTATC GCCACTGGCA GCAGCCACTG GTAACAGGAT TAGCAGAGCG AGGTATGTAG 3960  
GCGGTGCTAC AGAGTTCTTG AAGTGGTGGC CTAACACTAGG CTACACTAGA AGGACAGTAT 4020  
TTGGTATCTG CGCTCTGCTG AAGCCAGTTA CCTTCGGAAA AAGAGTTGGT AGCTCTTGAT 4080

FIG. 20D

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CCGGCAAACA AACCAACCGCT GGTAGCGGTG GTTTTTTTTGT TTGCAAGCAG CAGATTACGC 4140  
GCAGAAAAAA AGGATCTCAA GAAGATCCTT TGATCTTTTC TACGGGGTCT GACGCTCAGT 4200  
GGAACGAAAA CTCACGTTAA GGGATTTTGG TCATGAGATT ATCAAAAAGG ATCTTCACCT 4260  
AGATCCTTTT AAATTAAAAA TGAAGTTTTA AATCAATCTA AAGTATATAT GAGTAAACTT 4320  
GGTCTGACAG TTACCAATGC TTAATCAGTG AGGCACCTAT CTCAGCGATC TGTCTATTTC 4380  
GTTTCATCCAT AGTTGCCCTGA CTCCCCGTCTG TGTAGATAAC TACGATACGG GAGGGCTTAC 4440  
CATCTGGCCC CAGTGCTGCA ATGATACCGC GAGACCCACG CTCACCGGCT CCAGATTAT 4500  
CAGCAATAAA CCAGCCAGCC GGAAGGGCCG AGCGCAGAAG TGGTCCTGCA ACTTTATCCG 4560  
CCTCCATCCA GTCATTAAT TGTTTGCCGG AAGCTAGAGT AAGTAGTTCG CCAGTTAATA 4620  
GTTTGCGCAA CGTTGTTGCC ATTGCTACAG GCATCGTGGT GTCACGCTCG TCGTTTGGTA 4680  
TGGCTTCATT CAGCTCCGGT TCCCAACGAT CAAGGCGAGT TACATGATCC CCCATGTTGT 4740  
GCAAAAAAGC GGTTAGCTCC TTCGGTCCTC CGATCGTTGT CAGAAGTAAG TTGGCCGCAG 4800  
TGTTATCACT CATGGTTATG GCAGCACTGC ATAATTCTCT TACTGTCTATG CCATCCGTAA 4860  
GATGCTTTTC TGTGACTGGT GAGTACTCAA CCAAGTCATT CTGAGAATAG TGTATGCGGC 4920  
GACCGAGTTG CTCTTGCCCG GCGTCAATAC GGGATAATAC CGGCCACAT AGCAGAACTT 4980  
TAAAAGTGCT CATCATTTGA AAACGTTCTT CGGGCGGAAA ACTCTCAAGG ATCTTACCGC 5040  
TGTTGAGATC CAGTTCGATG TAACCCACTC GTGCACCCAA CTGATCTTCA GCATCTTTTA 5100

FIG. 20E

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CTTTCACCCAG CGTTTCTGCG TGAGCAAAAA CAGGAAGGCA AAATGCCGCA AAAAAGGGAA 5160  
TAAGGGCGAC ACGGAAATGT TGAATACTCA TACTCTTCCT TTTTCAATAT TATTGAAGCA 5220  
TTTATCAGGG TTATTGTCTC ATGAGCGGAT ACATATTTGA ATGTATTAG AAAAATAAAC 5280  
AAATAGGGT TCCGCGCACA TTTCCCCGAA AAGTGCCACC TGACGTCTAA GAAACCATTA 5340  
TTATCATGAC ATTAACCTAT AAAAATAGGC GTATCACGAG GCCTATGCGG TGTGAAATAC 5400  
CGCACAGATG CGTAAGGAGA AAATACCGCA TCAGGCGCCA TTCGCCATTC AGGCTGCGCA 5460  
ACTGTTGGGA AGGGCGATCG GTGCGGGCCT CTTGCTATT ACGCCAGCTG GCGAAAGGGG 5520  
GATGTGCTGC AAGGCGATTA AGTTGGGTAA CGCCAGGGTT TTCCCAGTCA CGACGTTGTA 5580  
AAACGACGGC CAGTGCCAAG CTTGCATGCC TGCAGGTCGA 5620

FIG. 20F